



18-mile GMRS/FRS 2-way radio with charger

Thank you for purchasing your 2-way radio from RadioShack. You can talk to others in the next room, next door, and around the neighborhood. Your radios transmit and receive General Mobile Radio Service (GMRS) and Family Radio Service (FRS) frequencies.



on/off/volume
Rotate to turn on/off or to adjust volume.

display with backlight
Lights up for 10 seconds when you press any key (except PTT and BOOST).

PTT (Push to Talk)
Hold down to talk. Release to receive.

BOOST
Press for maximum transmission for one minute when you're using a GMRS channel. Requires Ni-MH batteries.

WX/ALERT

- Press to listen to a weather channel.
- Press and hold to set the radio to the weather alert mode.

D-CALL
Press to send a short call tone to a person, a group, or all radios.

MENU/GRP
Accesses advanced features and group mode.

MIC
To transmit, hold down the PTT button and speak into the microphone.

TONE/SCN

- Press before selecting a quiet code.
- Hold down to scan all channels. The radio pauses on active channels until activity clears. Press PTT to transmit on a paused channel. Press D-CALL, PTT, BOOST, WX/ALERT or MENU/GRP, or hold TONE/SCN for two seconds to cancel the scan.

headset jack
Connect a headset (not supplied).

headset
Connect a headset (not supplied).

Please read this user's guide before installing, setting up, and using your new product.
www.radioshack.com

what's included

- GMRS/FRS Radios (2)
- Battery Packs (2)
- Belt Clips (2)
- Charging Cradles (2)
- AC Adapters (2)

User's Guide

getting started

installing batteries

To install the battery pack or AAA batteries (not included), release the latch, remove the battery compartment cover, install the battery pack according to the label and replace the cover.



Dispose of old batteries promptly and properly. Do not burn or bury them.

Use only fresh batteries of the required size and recommended type. Do not mix batteries of different sizes or chemistries.

If you do not plan to use your radio for a month or more, remove the batteries. Batteries can leak chemicals that can damage electronic parts.

charging your radios

Battery packs take about 16 hours to fully charge. When the battery is low, BATT appears and flashes. Recharge the battery pack. You can charge in one of three ways: using AC adapters, cradles or your car adapter (not included).

Do not recharge alkaline batteries.

To prolong the life of your rechargeable batteries, always fully discharge your battery pack before recharging.

You cannot recharge AAA type rechargeable batteries.

charging with AC adapters

- Turn off the radio.
- Connect the supplied AC adapter to the DC 9V jack of the radio and to a standard wall outlet.
- Charge the battery pack for 16 hours until BATT stops flashing.

charging using the cradles

- Plug the supplied AC adapter into the cradle and a standard wall outlet.
- Turn off the radio and place in the charger.
- Charge the battery pack for 16 hours until BATT stops flashing. Then remove the radio from the cradle after charging.

using vehicle battery power

You can charge the radio using a 9V, 210 mA DC adapter and a size H AdaptaPlug™ adapter (neither supplied). Both are available at RadioShack.

You must use a power adapter that supplies 9V DC and delivers at least 210 mA. Its center tip must be set to positive and its plug must fit the radio's DC 9V jack. Using an adapter that does not meet these specifications could damage the radio or the adapter.

- Turn off the radio.
- Insert the AdaptaPlug into the adapter's cord with center tips set to positive +. Then, insert the AdaptaPlug into the radio's 9V jack and plug the other end of the adapter into your vehicle's power adapter socket.
- Charge the battery pack for 16 hours until BATT stops flashing.

automatic power save feature

After three seconds of inactivity, your radio switches to Power Save mode. The radio can still receive transmissions in this mode.

attaching belt clips

Attach each belt clip by sliding the belt clip down. To remove, lift the tab and slide the belt clip upward.

making a call

- Turn on the radio.
- Verify the person you wish to talk to is on the same channel.
- Press PTT (push to talk) to talk, then release to listen.

muting keystroke tones

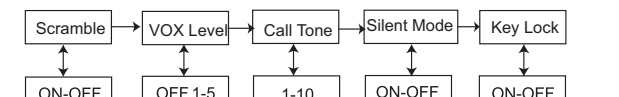
To mute the keystroke tones, press and hold D-CALL while turning on the radio. To reactivate the keystroke tones, turn the radio off. Then turn it back on while holding down D-CALL.

activating roger beep

A roger beep is sent to notify the end of a transmission. To activate the roger beep, press and hold Δ while turning on the radio. To deactivate the roger beep, turn the radio off. Then turn it back on while holding Δ. You can hear a sent roger beep when the keystroke tone feature is on.

advanced features

To access advanced features, repeatedly press MENU/GRP to scroll through the menu.



To exit, press PTT, BOOST, MON, D-CALL, WX/ALERT, or TONE/SCN or wait 10 seconds for the radio to automatically exit. Or, press MENU/GRP at the key lock setting.

scramble

You can use scramble mode if you want to make a private conversation. This works by garbling your transmission to unwanted listener. Be sure that your party also sets their radio to the scramble mode to listen in. To scramble your conversation:

- Repeatedly press MENU/GRP until SCRM appears.
- Use Δ or ∇ to select on or off.

voice operated transmission (VOX)

Voice Operated Transmission (VOX) mode enables handsfree operation. To use VOX mode:

- Insert a headset microphone into the headset jack.
- Repeatedly press MENU/GRP until VOX appears. Selecting OF (OFF) disables VOX.
- Repeatedly press Δ or ∇ to select a VOX sensitivity level (1 - most sensitive to 5 - least sensitive) to suppress background noise. This helps prevent unintended transmission.

call tones

To change call tones:

- Repeatedly press MENU/GRP until CALL appears.
- Repeatedly press Δ or ∇ to select a call tone (1 - 10).
- To transmit the selected call tone, press D-CALL.
- To cancel the tone, press PTT or BOOST.

silent mode

When silent mode is on, all incoming calls are muted, the backlight blinks, and "SLNT" and the call icon display to alert you of an incoming call. If you do not respond to the call within 15 seconds, the backlight turns off, and the miss call icon will continuously blink. Silent mode is disabled for 15 seconds when you transmit or press any other key, or after you receive the last signal.

To enter silent mode:

- Repeatedly press MENU/GRP until SLNT appears.
- Repeatedly press Δ or ∇ to select on or off.
- To confirm the setting and exit the menu mode, press MENU/GRP twice.

To prevent unwanted silent alerts, be sure to use a quiet code whenever you use the silent mode feature. Even during silent mode, you can hear other users when you turn on the channel scan and an active channel is detected.

key lock

To lock the radio keys:

- Repeatedly press MENU until LOCK appears.
- Press Δ or ∇ to select OF (OFF) or ON (ON).
- To confirm the setting, press MENU/GRP. If you do not confirm your selection, the keys will not lock.
- To unlock the keypad, turn the radio off and then back on.

group mode

In order to use group mode Direct Call and Auto Channel Change, you need to initialize the following settings on your radio:

- Set the radio to Group Mode
- Set a Group Number
- Set a Ring Tone
- Set a Unit Number
- Set a Nickname

setting the radio to group mode

To set the radio to group mode, press and hold MENU/GRP for 2 seconds. The radio displays of GRUP.

Press Δ to display on GRUP, then press MENU/GRP to continue to the next section.

In group mode, you cannot receive transmissions from other radios unless they are also set to the same channel and group number.

setting a group number

Set a group number from 0-142, so the group member can select the same group number to communicate with each other.

- Press and hold MENU/GRP for 2 seconds. The radio displays on GRUP.
- Press MENU/GRP. The radio displays Gnnn (where n is a number). Press Δ or ∇ to select a group number.
- Press PTT or BOOST to exit, or continue to the next section.

setting a ring tone

You can select a tone for a direct call.

- Press and hold MENU/GRP for 2 seconds. Then press MENU/GRP two times until the radio displays n RING.
- Press Δ or ∇ to select the desired ring tones.
- Press PTT or BOOST to exit, or continue to the next section.

setting a unit number

Each radio in your group needs to be set to a different number, from 1-16.

- Press and hold MENU/GRP for 2 seconds, then press MENU/GRP three times until the radio displays n _ _ _ (or your current nickname).
- Press Δ or ∇ repeatedly to select the desired unit number.
- Press MENU/GRP to set the unit number and continue to the next section.

setting your nickname

Your nickname appears on other group member's displays when you make a group call or direct call. When no nickname is set, the unit number appears.

- Press and hold MENU/GRP for 2 seconds. Then press MENU/GRP four times until the radio displays n _ _ _ (or your current nickname) with the first place in the nickname flashing.

channels and quiet codes

Your radio has 22 channels and 142 quiet codes. To talk to others, you must be on the same channel and quiet code if it is activated.

To select a channel and quiet code:

- Repeatedly press Δ or ∇ to select a channel (1-22).
- Press TONE/SCN. The quiet code number flashes.
- Repeatedly press Δ or ∇ to select a quiet code (OFF or 1 - 142).
- Press TONE/SCN again.

Quiet codes limit authorized users and reduce interference.

Code OFF indicates that you have no quiet code selected. Your radio can receive a signal regardless of other radio settings.

channel frequency chart

| Ch. | Cross Ref. | Ch. | Cross Ref. |
|-----|---------------------|-----|---------------|
| 1 | 462.5625 FRS & GMRS | 12 | 467.6625 FRS |
| 2 | 462.5875 FRS & GMRS | 13 | 467.6875 FRS |
| 3 | 462.6125 FRS & GMRS | 14 | 467.7125 FRS |
| 4 | 462.6375 FRS & GMRS | 15 | 462.5500 GMRS |
| 5 | 462.6625 FRS & GMRS | 16 | 462.5750 GMRS |
| 6 | 462.6875 FRS & GMRS | 17 | 462.6000 GMRS |
| 7 | 462.7125 FRS & GMRS | 18 | 462.6250 GMRS |
| 8 | 467.5625 FRS | 19 | 462.6500 GMRS |
| 9 | 467.5875 FRS | 20 | 462.6750 GMRS |
| 10 | 467.6125 FRS | 21 | 462.7000 GMRS |
| 11 | 467.6375 FRS | 22 | 462.7250 GMRS |

Use FRS (LO) channels 8 - 14, with a range of up to 5 miles, for longer battery life. Use GMRS (HI) channels 1 - 7 and 15 - 22, with a range of up to 18 miles, for more power.

You can boost the typical range of GMRS channels only when operating on a Ni-MH battery pack. When you press BOOST while using alkaline batteries, TXHI appears instead of BOOST and the range is not boosted.

using the weather radio

Your radio can receive weather broadcasts from the NOAA National Weather Service. There are 7 common NOAA channel frequencies in the US and Canada:

NOAA weather radio frequency list

| | |
|-----------|-------------|
| Channel 1 | 162.550 MHz |
| Channel 2 | 162.400 MHz |
| Channel 3 | 162.475 MHz |
| Channel 4 | 162.425 MHz |
| Channel 5 | 162.450 MHz |
| Channel 6 | 162.500 MHz |
| Channel 7 | 162.525 MHz |

- To listen to a weather channel, press WX/ALERT. WX appears.
- Repeatedly press Δ or ∇ to select the desired weather channel. To change the channel continuously, press and hold Δ or ∇ for more than 1 second.
- To exit the weather channel mode, press WX/ALERT. WX disappears.

using the weather alert

In weather alert mode, the radio operates normally but also monitors the selected weather channel for alerts when it is not transmitting or in the menu mode. Your radio sounds an alert for serious weather conditions when it receives a weather alert.

- Select your local weather channel.
- Press and hold WX/ALERT; alert appears and the sound is muted.
- Press WX/ALERT to change the mode from weather to GMRS/FRS. You can use the radio as usual.
- When the radio receives a warning signal, an alert tone sounds for 5 seconds. alert and the channel indicator blink. Press any key to turn off the alert tone before it automatically stops.
- To exit the weather alert mode and listen to the weather channel, press WX/ALERT.

To turn off the weather alert mode before a warning signal is detected, press and hold WX/ALERT. alert disappears.

product specifications

| | |
|----------------------------------|--|
| Channels | 15 GMRS / 7 FRS / 7 Weather |
| Quiet Codes | 38 Sub-Audible Tones, 104 DCS Codes |
| Operating Frequency | |
| GMRS/FRS | UHF 462.5500 - 467.7125 MHz |
| WX | 162.4000 - 162.5500 MHz |
| Range | |
| Channels 8 - 14 | Up to 10 miles (or up to 18 miles with BOOST) |
| Channels 1 - 7, 15 - 22 | Up to 5 miles |
| Power Source | Ni-MH battery pack (supplied) or 4 AAA Alkaline Batteries (optional, not supplied) |
| Battery Life (5/5/90 duty cycle) | About 12 hours (with Ni-MH Battery Pack) |

Specifications are typical; individual units may vary. Specifications are subject to change and improvement without notice. Actual product may vary from the images in this document.

RF exposure information

WARNING! The Federal Communications Commission has adopted a safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following: Never allow children to operate the radio without adult supervision and the knowledge of these guidelines. Avoid touching the antenna when transmitting. Do not use the radio with a damaged antenna. Please contact your local RadioShack store for a suitable replacement. This device was tested for typical body-worn operations. Use only the supplied belt-clip to maintain compliance with FCC RF exposure requirements. For hand-held operation, the radio should be held 1 inch from the user's face. Use only the supplied accessories to comply with FCC RF exposure requirements. For more information about RF exposure, please visit the FCC web site at www.fcc.gov.

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

caring for your radios

- Keep your radios dry; if they get wet, wipe them dry immediately.
- Handle your radios carefully; do not drop them.
- Wipe your radios with a damp cloth occasionally to keep them looking new.

GMRS license

This radio operates on the General Mobile Radio Service (GMRS) frequencies when using Channels 1—7 and channels 15—22. You must have a GMRS license issued by the Federal Communications Commission to legally use these channels. For licensing information and application forms, visit the FCC online at: www.fcc.gov/wtb/uls or call the FCC hotline at 1-800-418-3676. If you have any questions, you can contact the FCC direct at 1-888-225-5322.

No license is required for operation on channels 8-14 or operation on any channel in Canada.

limited one-year warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. For complete warranty details and exclusions, check with your local RadioShack store.

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